

## CLAIMS

1. A security system comprising:

a control device for performing a predetermined coping  
5 action when an abnormality is detected in a monitored area;

an outing motion detection sensor for detecting actions  
of a non-monitored person when leaving the monitored area;  
and

a non-monitored person detecting sensor for detecting  
10 the non-monitored person in the monitored area,

the control device including:

mode switching means for switching between an alert  
mode with which the coping action is performed if the  
abnormality is detected in the monitored area and a non-alert  
15 mode with which the coping action is not performed; and

mode switching reminder means for causing a remote  
alarm device located at a remote place to present mode  
change reminder information, when the outing motion  
detection sensor detects that the non-monitored person has  
20 left the monitored area, the non-monitored person detecting  
sensor does not detect any other non-monitored person, and  
the non-alert mode has been set.

2. A security system comprising:

25 a control device for performing a predetermined coping

action when an abnormality is detected in a monitored area;

an outing motion detection sensor for detecting actions of a non-monitored person when leaving the monitored area; and

5 a plurality of non-monitored person detecting sensors for detecting the non-monitored person in the monitored area, the control device including:

mode switching means for switching between an alert mode with which the coping action is performed if the  
10 abnormality is detected in the monitored area and a non-alert mode with which the coping action is not performed;

a storage section for storing initial state data that indicates initial states of the non-monitored person detecting sensors in the alert mode;

15 initial state detection means for detecting a matching between detection states of the non-monitored person detecting sensors and the initial state data; and

mode switching reminder means for causing a remote alarm device located at a remote place to present mode  
20 change reminder information, when the outing motion detection sensor detects that the non-monitored person has left the monitored area, the detection states of the non-monitored person detecting sensors are matched with the initial state data, and the non-alert mode has been set.

3. A security system comprising:

a control device for performing a predetermined coping action when an abnormality is detected in a monitored area; and

5           an outing motion detection sensor for detecting actions of a non-monitored person when leaving the monitored area, the control device including:

mode switching means for switching between an alert mode with which the coping action is performed if the  
10           abnormality is detected in the monitored area and a non-alert mode with which the coping action is not performed; and

mode switching reminder means for causing a remote alarm device located at a remote place to present mode change reminder information, when the outing motion  
15           detection sensor detects that the non-monitored person has left the monitored area, and the non-alert mode has been set.

4. The security system according to claim 3, wherein:

the outing motion detection sensor is provided so as to  
20           detect actions of the non-monitored person who passes an exit of the monitored area from the inside of the monitored area to the outside.

5. A security system comprising:

25           a control device for performing a predetermined coping

action when an abnormality is detected in a monitored area;  
and

a non-monitored person detecting sensor for detecting  
the non-monitored person in the monitored area,

5 the control device including:

mode switching means for switching between an alert  
mode with which the coping action is performed if the  
abnormality is detected in the monitored area and a non-alert  
mode with which the coping action is not performed; and

10 mode switching reminder means for causing a remote  
alarm device located at a remote place to present mode  
change reminder information, when the non-monitored person  
detecting sensor detects no non-monitored person, and the  
non-alert mode has been set.

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6. A security system comprising:

a control device for performing a predetermined coping  
action when an abnormality is detected in a monitored area;  
and

20 a plurality of non-monitored person detecting sensors  
for detecting the non-monitored person in the monitored area,

the control device including:

mode switching means for switching between an alert  
mode with which the coping action is performed if the  
25 abnormality is detected in the monitored area and a non-alert

mode with which the coping action is not performed;

a storage section for storing initial state data that indicates initial states of the non-monitored person detecting sensors in the alert mode; and

5           initial state detection means for detecting a matching between detection states of the non-monitored person detecting sensors and the initial state data; and

          mode switching reminder means for causing a remote alarm device located at a remote place to present mode  
10   change reminder information, when the detection states of the non-monitored person detecting sensors are matched with the initial state data, and the non-alert mode has been set.

7. The security system according to claim 6, wherein:

15           the control device further includes initial state data accumulative storing means for, when switching to the alert mode is carried out in accordance with an instruction from a user, storing, in the storage section, the initial state data in which the detection states of the non-monitored person  
20   detecting sensors at the time of the switching to the alert mode or after a predetermined period has elapsed from the switching to the alert mode are associated with the accumulative frequencies of the detection states, and

          the initial state detection means compares a pattern of  
25   the detection states of the non-monitored person detecting

sensors with highest accumulative frequency patterns, the number of which is predetermined, in the initial state data stored in the storage section, so as to detect a matching therebetween.

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8. The security system according to any one of claims 1 through 7, wherein:

the remote alarm device includes remote-switching instruction input means for the user inputting a mode switching instruction to the alert mode, and

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the mode switching means of the control device switches to the alert mode in accordance with the mode switching instruction received from the remote alarm device.

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9. A security system comprising:

a control device for performing a predetermined coping action when an abnormality is detected in a monitored area;

an outing motion detection sensor for detecting actions of a non-monitored person when leaving the monitored area;

20 and

a non-monitored person detecting sensor for detecting the non-monitored person in the monitored area,

the control device including:

mode switching means for switching between an alert mode with which the coping action is performed if the

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abnormality is detected in the monitored area and a non-alert mode with which the coping action is not performed,

the mode switching means automatically switching to the alert mode when the outing motion detection sensor detects that the non-monitored person has left the monitored area, the non-monitored person detecting sensor does not detect any other non-monitored person, and the non-alert mode has been set.

10 10. A security system comprising:

a control device for performing a predetermined coping action when an abnormality is detected in a monitored area; and

15 an outing motion detection sensor for detecting actions of a non-monitored person when leaving the monitored area;

the control device including:

mode switching means for switching between an alert mode with which the coping action is performed if the abnormality is detected in the monitored area and a non-alert mode with which the coping action is not performed,

the mode switching means automatically switching to the alert mode when the outing motion detection sensor detects that the non-monitored person has left the monitored area, and the non-alert mode has been set.

11. A security system comprising:

a control device for performing a predetermined coping action when an abnormality is detected in a monitored area; and

5 a plurality of non-monitored person detecting sensors for detecting the non-monitored person in the monitored area, the control device including:

mode switching means for switching between an alert mode with which the coping action is performed if the  
10 abnormality is detected in the monitored area and a non-alert mode with which the coping action is not performed;

a storage section for storing initial state data that indicates initial states of the non-monitored person detecting sensors in the alert mode; and

15 initial state detection means for detecting a matching between detection states of the non-monitored person detecting sensors and the initial state data,

the mode switching means automatically switching to the alert mode, when the detection states of the  
20 non-monitored person detecting sensors are matched with the initial state data, and the non-alert mode has been set.

12. The security system according to claim 10 or 11, further comprising:

25 mode switching report means for causing a remote alarm



device located at a remote place to present mode change report information, when the mode switching means automatically switches to the alert mode.

5           13. A control device being a component of the security system according to any one of claims 1 through 12.

14. A remote alarm device being a component of the security system according to any one of claims 1 through 12.

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15. The remote alarm device according to claim 14 being a portable telephone.

16. The remote alarm device according to claim 14 being  
15 integrated with a key for the exit of the monitor area.

17. The remote alarm device according to claim 14 being integrated with a remote-key to a car.

20           18. A control method for a security system which can switch between an alert mode with which a predetermined coping action is performed if the abnormality is detected in a monitored area and a non-alert mode with which the coping action is not performed,

25           the method comprising:

an outing motion detecting step of an outing motion detection sensor detecting actions of a non-monitored person when leaving the monitored area; and

5 a mode switching reminder step of causing a remote alarm device located at a remote place to present mode change reminder information, when the outing motion detection sensor detects that the non-monitored person has left the monitored area, and the non-alert mode has been set.

10 19. A control method for a security system which can switch between an alert mode with which a predetermined coping action is performed if the abnormality is detected in a monitored area and a non-alert mode with which the coping action is not performed,

15 the method comprising:

an initial state detecting step of detecting a matching between detection states of a plurality of non-monitored person detecting sensors and initial states of the non-monitored person detecting sensors in the alert mode,  
20 the non-monitored person detecting sensors each detecting a non-monitored person in the monitored area; and

a mode switching reminder step of causing a remote alarm device located at a remote place to present mode change reminder information, when the detection states of the  
25 non-monitored person detecting sensors are matched with the

initial states, and the non-alert mode has been set.

20. A control method for a security system which can switch between an alert mode with which a predetermined coping action is performed if the abnormality is detected in a monitored area and a non-alert mode with which the coping action is not performed,

the method comprising:

an outing motion detecting step of an outing motion detection sensor detecting actions of a non-monitored person when leaving the monitored area; and

an automatic switching step of automatically switching to the alert mode when the outing motion detection sensor detects that the non-monitored person has left the monitored area, and the non-alert mode has been set.

21. A control method for a security system which can switch between an alert mode with which a predetermined coping action is performed if the abnormality is detected in a monitored area and a non-alert mode with which the coping action is not performed,

the method comprising:

an initial state detecting step of detecting a matching between detection states of a plurality of non-monitored person detecting sensors and initial states of the

non-monitored person detecting sensors in the alert mode,  
the non-monitored person detecting sensors each detecting a  
non-monitored person in the monitored area; and

5        an automatic switching step of automatically switching  
to the alert mode, when the detection states of the  
non-monitored person detecting sensors are matched with the  
initial states, and the non-alert mode has been set.

10        22. A control program which operates the security  
system according to any one of claims 1 through 12, for  
causing a computer to function as each of the foregoing  
means.

15        23. A computer-readable storage medium storing therein  
the control program according to claim 22.